Statistics

AQA · GCSE · Mathematics · Vocabulary in context

Word	Example
population /ˌpɒpjʊˈleɪʃn/	Define the **population** before deciding whom to include.
census /ˈsensəs/	A **census** asks every member of the population, not just a sample.
sample /ˈsæmpl/	The **sample** contains the people selected for this study.
primary data /ˈpraɪməri ˈdeɪtə/	Collect **primary data** yourself by measuring or asking questions.
secondary data	Figures from a government website are **secondary data**.
categorical data	Favourite colour gives **categorical data**.
discrete /dɪˈskriːt/	The number of children is **discrete**: you can count it.
continuous data	**Continuous data** can take any value in a range, such as height or time.
pie chart /paɪ tʃɑːt/	A **pie chart** shows parts of a whole.
time series /taɪm ˈsɪəriːz/	A **time series** records values in time order.
central tendency /ˈsentrəl ˈtendənsi/	The mean, median and mode are measures of **central tendency**.
mean /miːn/	The **mean** is the total divided by the number of values.

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median /ˈmiːdiːən/	Put the values in order before you find the **median**.
mode /məʊd/	The **mode** is the most common value.
modal class /ˈməʊdl klæs/	The **modal class** is the group with the most values.
range /reɪndʒ/	The **range** of the results is from 4.1 g to 4.5 g. 4.1 g 4.5 g
outlier /ˈaʊtlaɪə/	Leave out the **outlier** when you draw the line.
histogram /ˈhɪstəgræm/	Draw a **histogram** with the bars touching.
class interval	The **class interval** $10 \leq x < 20$ excludes 20. $10 \leq x < 20$ 20
frequency density /ˈfriːkwənsi ˈdensɪti/	**Frequency density** determines a histogram bar's height.
class width /klæs wɪtθ/	The **class width** of $20 \leq x < 40$ is 20. $10 \leq x < 40$ 20
cumulative frequency /ˈkjuːmjʊlətɪv ˈfriːkwənsi/	**Cumulative frequency** adds each count to all earlier counts.
quartile /ˈkwɔːtaɪl/	The lower **quartile** is a quarter of the way through the data.
interquartile range /ˌɪntəˈkwɔːtaɪl reɪndʒ/	Subtract the lower quartile from the upper for the **interquartile range**.
box plot /bɒks plɒt/	A **box plot** displays the median and quartiles.
scatter graph /ˈskætə græf/	A **scatter graph** plots paired values for two variables.

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correlation /ˌkɒrɪ'leɪʃn/	There is a **correlation** between light and plant height, but that does not prove one causes the other.
line of best fit /laɪn ɒv best fɪt/	Draw a **line of best fit** through the points.
• **interpolate**	**Interpolate** to estimate a value inside the range of the data.
→ **extrapolate** /ek'stræpəleɪt/	**Extrapolate** the line back to find the temperature at the start.

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